

What is claimed is:

1. Process for producing a compound motor vehicle component with an outside skin formed of a finished surface component, an inside layer and a spacer part which contains hollow chambers and which is located between the outside skin and the inside layer and is connected to them, comprising the steps of:

inserting the finished surface component into a first half of a molding tool,

inserting a glass fiber mat into second half of the molding tool,

applying a liquid adhesive layer to the glass fiber mat in second mold half and to the surface-finished component in a first mold half,

inserting the spacer part between the adhesive layers while the adhesive layers are still liquid, and

closing the a first and second mold halves so as to press the compound motor vehicle component into its final shape and so as to diffuse the adhesive into the spacer part, and

setting the adhesive.

2. Process as claimed in claim 1, wherein the a preshaped, deep drawn component is provided as the finished surface component.

3. Process as claimed in claim 1, wherein a second glass fiber mat is provided on the spacer part before inserting the spacer part into the molding tool, and wherein the spacer part is inserted in the mold half with the second glass fiber mat facing an inner side of the finished surface component.

4. Process as claimed in claim 1, wherein the adhesive is applied at least to the upper glass fiber mat outside of the tool, and the upper glass fiber mat to which the adhesive has been applied is placed horizontally in the tool on the top of the spacer part.

5. Process as claimed in claim 1, wherein after setting of the adhesive, a peripheral area of the glass fiber mat of the compound motor vehicle component is cut away by

punching via a movable slider which is located in an edge area of the tool and which is used to hold the outside skin.

6. Process as claimed in claim 1, wherein, during said closing and setting steps, an edging cutter provided in the first half of the molding tool is engaged with an opposed surface of a slider provided in the second half of the molding tool which has a groove for holding centering pins, the slider being displaced on said engagement of the edging cutter on said surface.

7. Process as claimed in claim 1, wherein said applying step comprises the step of inserting a spray tool between the halves of the molding tool for applying said adhesive layer.

8. Process as claimed in claim 7, wherein the spray tool has a spray head with two sets of nozzles on the spray head, each of said sets facing toward a respective one of the halves of the molding tool, adhesive being sprayed toward both said finished surface component and said glass fiber mat.

9. Molding tool for producing a compound motor vehicle component with an outside skin, an inside layer and a spacer part which contains hollow chambers and which is located between the outside skin and the inside layer and is connected to them, comprising:

 a first half for holding the outside skin of the compound motor vehicle component,
 a slider which is movable perpendicular to a direction of extension of the compound motor vehicle component,

 centering pins for holding the outside skin, and

 an edging cutter, and

 a second half which is provided with holding devices for holding a glass fiber mat.

10. Molding tool as claimed in claim 9, wherein the edging cutter is provided in the first half of the molding tool; wherein the slider is provided in the second half of the molding tool and is provided with a groove for holding centering pins and which has a surface which

is opposite the edging cutter of the lower tool half; and the slider is upwardly displacable on engagement the edging cutter on said surface.

11. Molding tool as claimed in claim 9, further comprising a spray tool for applying adhesive which is insertable between the halves of the molding tool.

12. Molding tool as claimed in claim 11, wherein the spray tool has a spray head with two sets of nozzles on the spray head, each of said sets facing toward a respective one of the halves of the molding tool.